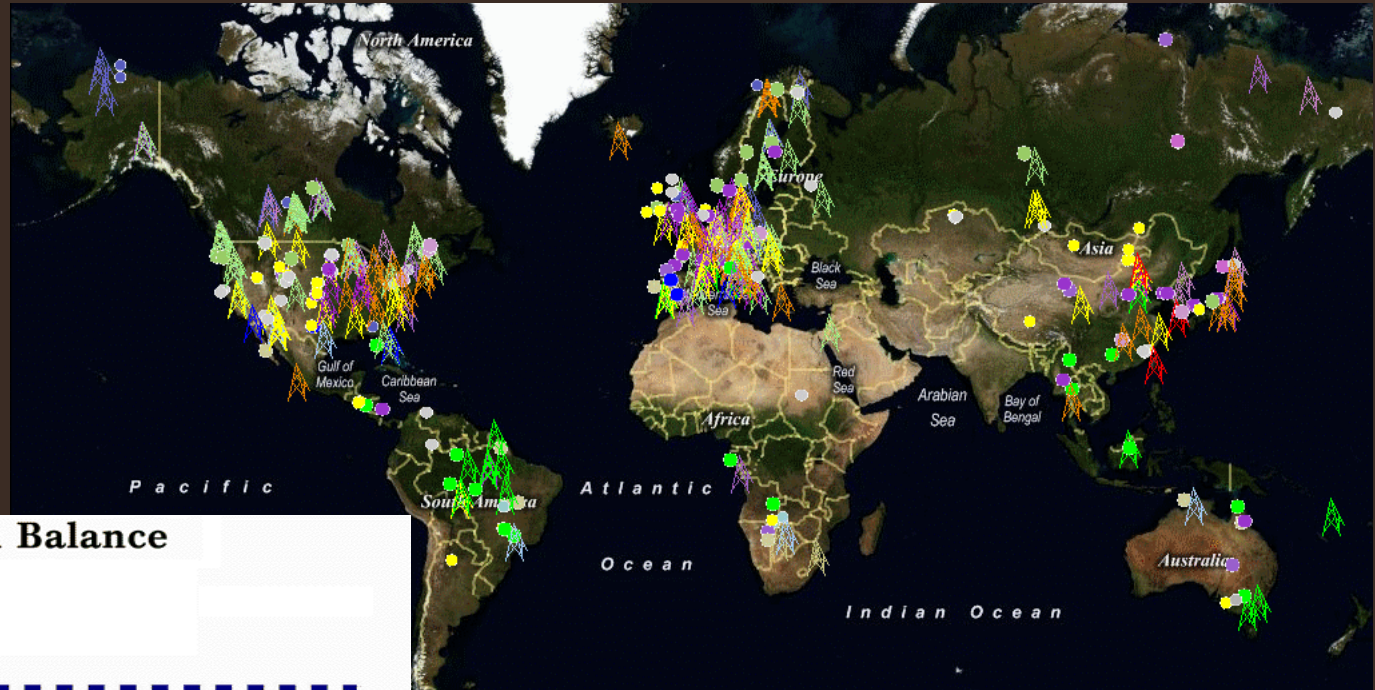


A DATA CENTERED COLLABORATION PORTAL TO SUPPORT GLOBAL CARBON-FLUX ANALYSIS

Deb Agarwal (BWC), Marty Humphrey (Uva),
and Norm Beekwilder (Uva)

FLUXNET GLOBAL CARBON FLUX NETWORK



Canopy Carbon Balance

Net Ecosystem
Carbon Exchange



Gross Photosynthesis

Dark and
Photo Respiration

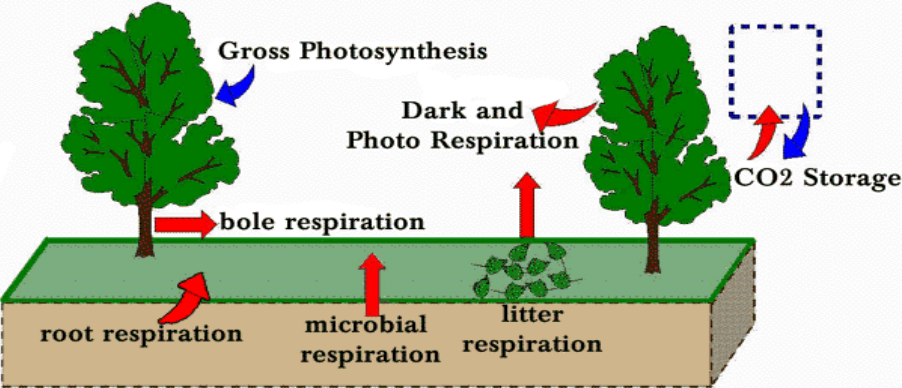
CO₂ Storage

bole respiration

root respiration

microbial
respiration

litter
respiration



FLUXNET SYNTHESIS WORKSHOPS

- Marconi Workshop – June 2000 - Marconi Conference Center, California
 - Data from 38 sites
 - ~96 site years of data
 - 17 half/hourly variables
 - 15 synthesis papers - published in a special issue of the Agriculture and Forest Meteorology, Volume 113, 2002
- La Thuile Workshop – February 2007 – La Thuile, Italy
 - Data from 253 sites (sensor, derived, and ancillary)
 - ~960 site years of data
 - 41 half/hourly variables
 - ~70 active synthesis papers underway

FLUXNET COLLABORATION DATA FLOW



Measurement Site Scientists

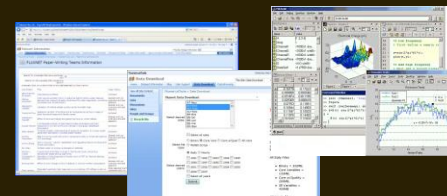
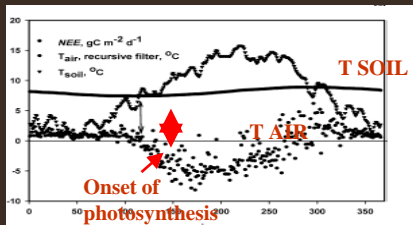


Regional Networks



Quality Assess and Gap Fill

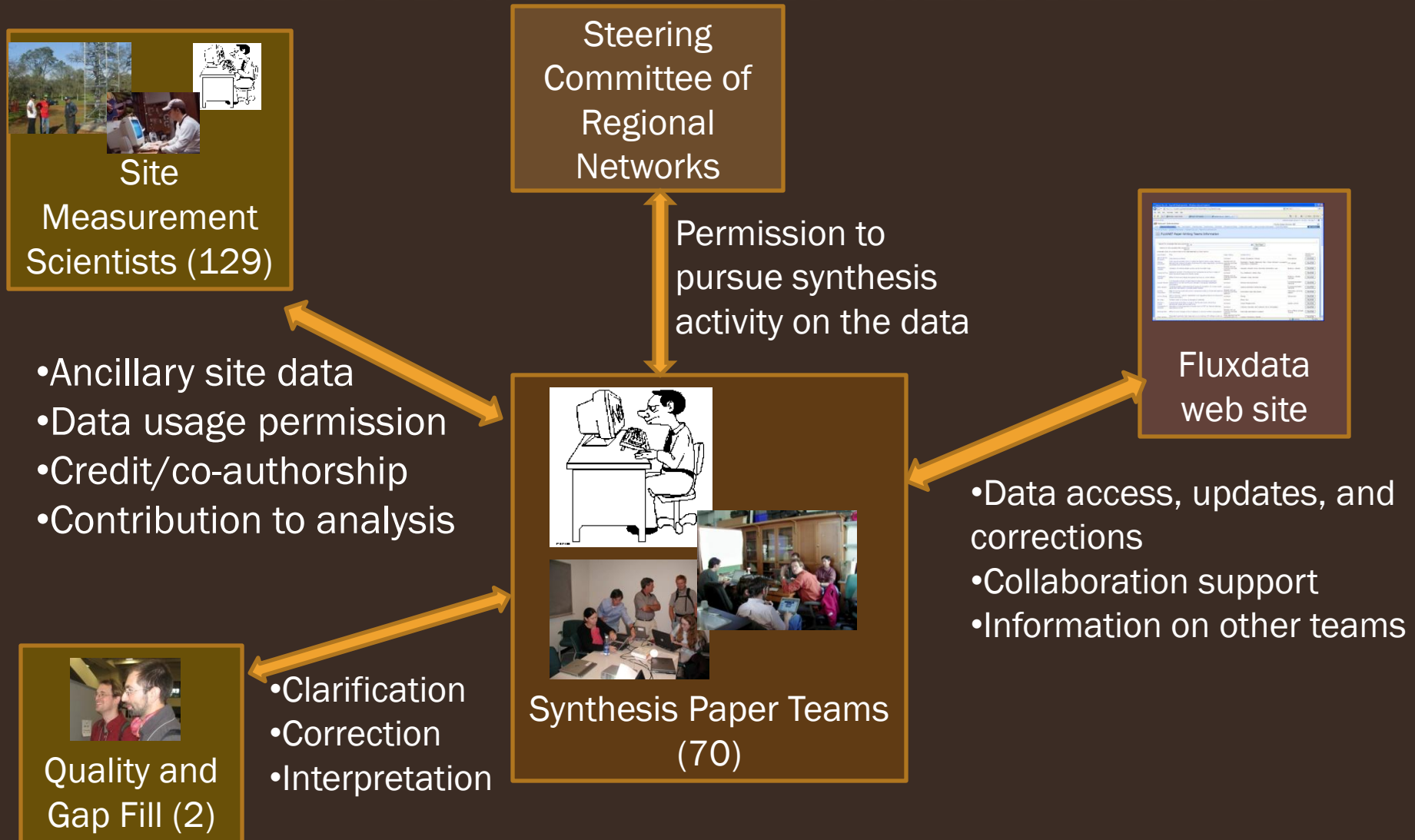
Synthesis activities



Data Access and Summaries, Site Biological and Ancillary Metadata, and Collaboration Support



SYNTHESIS COLLABORATION INTERACTIONS



FLUXDATA PORTAL USERS/USES

- Synthesis teams
 - Site selection and communication with site scientists
 - Data access (ancillary and flux/meteorological)
 - Data analysis support
- Site Measurement Scientists
 - Information about and communication with synthesis teams
 - Correct site ancillary information
 - Access the FLUXNET version of site data
- Public
 - Potential synthesis activity investigation
 - Funding agent verification of funding value
 - Modeler understanding of measurements
 - Updated information about the collaboration

FLUXDATA DESIGN PHILOSOPHY

- Minimize the barrier to entry
- Focus on functionality targeted at improving the **science** experience (get familiar with the science)
- Include critical content needed by a majority of collaborators
- Avoid adding extraneous functionality
- Listen to the target scientists (learn some of their science)
- Develop a relationship of mutual trust

Anticipate changes in users' practices due to introduction of collaborative tools

FLUXDATA PUBLIC VIEW - HOME

Home - Fluxnet-LaThuile - Windows Internet Explorer

http://www.fluxdata.org/default.aspx

File Edit View Favorites Tools Help

Home - Fluxnet-LaThuile

Fluxnet-LaThuile Sign In

Home Dataset Information Blog User Support

View All Site Content

Documents

- Shared Documents

Lists

- Calendar
- Tasks


Discussions

- Team Discussion

Sites

- Dataset Information
- Blog
- User Support
- Credits


People and Groups



Welcome to the Web Site for the FLUXNET Synthesis Data set.

This new database consists of over 960 site-years of data from over 253 eddy covariance measurement sites. Major efforts were made over the past 2 years to harmonize, standardize and gap-fill the 'raw' 30-minute data records submitted by participants. The database also includes value added products like gross primary productivity, ecosystem respiration, climate and site characteristic information. This database updates and supercedes the Marconi FLUXNET database that was produced in 2000 (with 97 years of data from 38 European and North American sites).

This database was produced in association with the FLUXNET-TCO synthesis workshop that was held in LaThuile, Italy, from February 18 to 22, 2007. The aim of the workshop was to produce a new and extensive FLUXNET dataset, discuss its scientific potential, propose new synthesis activities and start first analyses. The workshop was attended by 60 scientists, who represented a cross section of younger and established scientists and were members of regional networks from around the world: CarboEuropeIP, AmeriFlux, Fluxnet-Canada, LBA, Asiaflux, Chinaflux, USCCC, Ozflux, CarboAfrica, Koflux, NECC, TCOS-Siberia and Afriflux. More information about the FLUXNET project can be found here.



Announcements

FluxLetter 10/13/2008 1:20 PM
vol. 1, no. 3 now available
by Deb Agarwal
The latest FluxLetter is now available here. This issue highlights Fluxnet sites of Japan's FFPRI. It also contains an editorial on Fluxnet co-authorship and an article about re-thinking global change science. The highlighted student is Mi Zhang and...

How to Request an Account 6/4/2008 6:11 AM
by System Account
Please go to <https://pod.lbl.gov:31633/> to request an account to use this site. (Accept the certificate). You will need to know the "secret password". At this web page, you can also change your password if you have already registered.

Internet 100%

FLUXDATA PUBLIC VIEW - BLOG

The screenshot shows a Windows Internet Explorer browser window displaying the Fluxdata Public View Blog. The address bar shows the URL <http://www.fluxdata.org/Blog/default.aspx>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar shows icons for Home, Back, Forward, Stop, Reload, Print, and a search box labeled "Live Search".

The page content is titled "Fluxnet-LaThuile" and "Blog". It features a navigation menu with links to Home, Dataset Information, Blog (selected), and User Support. A search box labeled "This Site: Blog" is also present.

The main content area displays a list of blog posts:

- 11/16/2008**
Links added to enable direct download of reports . . .
Under the dataset information and the data browsing tabs on the site, there are now (ftp) links. Choosing these links will enable direct download of the excel version of the report.
Posted at 9:36 AM by Deb Agarwal | Category: FAQ | Permalink | Email this Post | Comments (0)
- 11/13/2008**
Upgrade to ancillary data underway . . .
Thanks to a great deal of work by site investigators, we have received significant amounts of new ancillary data. We are in the process of surfacing this data over the next week. We have now merged the ancillary data we had prior to the BADM template with the BADM data when it is available. The first part of the web site to get the ancillary data is the AmeriFlux sub-page. The Data Browsing tab links will be updated next.
Posted at 12:05 AM by Deb Agarwal | Category: Dataset Changes and Updates | Permalink | Email this Post | Comments (0)
- 11/10/2008**
Matlab interface now works under Unix systems
A new revision of the Matlab interface renders it compatible with Mac OSX, Unix, and Linux systems. You can get it as a zip archive directly <http://bwc.lbl.gov/Tools/CubeAccessLib2008-11-10.zip>. Of course, this library still works under Windows.
Posted at 6:14 PM by Robin Weber | Permalink | Email this Post | Comments (0)
- 10/17/2008**
Expanded site PI access . . .
In order to improve the ancillary data collection process, access to the fluxdata web site has been expanded to include PIs from flux sites that do not currently have data in the fluxnet dataset. If you are in this category, access to the fluxdata site will give you access to update and view your the data we have about your site only. It will not give you any other access beyond that provided to the public. If you are a flux tower PI and would like a login on the fluxdata site, please contact fluxdata-support@fluxdata.org for the access code.

The left sidebar contains a "Categories" section with links to General, Announcements and News, Dataset Changes and Updates, and FAQ. It also includes an "Other Blogs" section stating "There are no items in this list." and a "Links" section with links to Photos, Archive, and Archive (Calendar). An "RSS Feed" link is also present.

The bottom of the browser window shows the taskbar with the Internet Explorer icon and a status bar indicating 100% zoom.

FLUXDATA PUBLIC VIEW

The screenshot shows a web browser window titled "Home - Dataset Information - Windows Internet Explorer". The address bar displays "http://www.fluxdata.org/DataInfo/default.aspx". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The toolbar shows navigation buttons, a search bar with "Live Search", and a "Page" menu. The page content is organized into a sidebar and a main area. The sidebar on the left contains links for "Home", "Dataset Information", "Blog", and "User Support". Below these are sections for "View All Site Content", "Pictures" (with a link to "DataInfoImages"), "Documents" (with a link to "AmeriFlux Docs"), "Lists", "Discussions", "Sites", and "People and Groups". The main content area is titled "Fluxnet-LaThuile > Dataset Information" and contains several sections: "Dataset Information" with a note about column visibility; "Data Availability Information" with links to site year availability, data lists, and core variables; "Flux/Met Data Explanations (including units information)" with links to variable lists, data levels, processing steps, and datum reporting; "Ancillary Data Explanations (including BADM information)" with links to variable decoders and BADM templates; "Fluxnet Proposals and Data Fair Use Policy" with links to usage terms and proposal teams; "Information for Retired Versions of the FLUXNET Dataset" with links to data releases and previous workshops; "Fluxnet news and information" with a "FluxLetter Archive"; "List of Fluxnet Related Papers"; "Maps and Imagery" with links to tower location maps and webcams; "List of Sites" with links to site lists by curator, country, and network; "Site Information and Average Values" with links to site information, meteorological values, local climate, and ancillary data; and "Network Specific Information" with a link to AmeriFlux information. The status bar at the bottom shows "Done" and "Internet" with a 100% zoom level.

Home - Dataset Information - Windows Internet Explorer

http://www.fluxdata.org/DataInfo/default.aspx

File Edit View Favorites Tools Help

Home - Dataset Information

Home Dataset Information Blog User Support

View All Site Content

Pictures

- DataInfoImages

Documents

- AmeriFlux Docs

Lists

Discussions

Sites

People and Groups

Fluxnet-LaThuile > Dataset Information

Dataset Information

NOTE: If you don't see two columns on this page, scroll over to the right

The links on this page provide an overview of the LaThuile FLUXNET synthesis dataset and the sites that contributed data to the dataset. They also provide some specific information about the datum types and sites in this dataset as well as data availability information.

Data Availability Information

- By Site Year Availability Chart
- By Site List of Years with Data in the Dataset (ftp)
- By Site List of Core Variables Present for Each Year (ftp)

Flux/Met Data Explanations (including units information)

- List of flux/met variables in the 1/2 hourly files (ftp)
- List of flux/met variables in the daily files (ftp)
- Explanation of flux/met data levels and Offsets (ftp)
- Steps and Equations used in data processing and generation of data levels (includes reference papers)
- Datumtype reporting and aggregation information (ftp)

Ancillary Data Explanations (including BADM information)

- Ancillary variable name decoder
- Biological, Ancillary, Disturbance and Metadata (BADM) (ftp)
 - BADM Template Explanations (ftp)
 - BADM Variables By Type (ftp)
 - BADM Template in Excel2007 and Excel2003 format

Fluxnet Proposals and Data Fair Use Policy

- Data Usage Terms of Reference
- Proposal Teams and Focus Group Info including list of sites in use for each proposal

Information for Retired Versions of the FLUXNET Dataset

- DataRelease 1 - released 15 December 2007
- Datasets from previous workshops can be found at the FLUXNET project web

Fluxnet news and information

FluxLetter Archive

List of Fluxnet Related Papers

Maps and Imagery

- Map of Tower locations (choose how to color the towers in the upper left corner. Towers with no flux/met data in the FLUXNET synthesis set are dots)
- Map of Towers with Phenology Webcams (Protocol for phenology observations)
- Virtual Earth cutouts of tower locations at various zoom levels

List of Sites

- List of Sites by Curator (the curator is the person responsible for collecting data from and interactions with the site PI) (ftp)
- List of Site Curators and Contacts by Country (includes PI information) (ftp)
- List of Sites by Network (ftp)

Site Information and Average Values

- Site information pages
- Summary of key site average meteorological values (ftp)
- Site local climate information (provided by Bob Cook) (ftp)
- General Site Ancillary data (ftp)
 - Koeppen-Geiger Climate Classification Map
 - IGBP vegetation types table (ftp)
 - Full Site Ancillary data - access restricted to collaboration members

Network Specific Information

- AmeriFlux (Information about AmeriFlux site years in Fluxnet, Level 3/Level 4 data, and ...)

FLUXDATA PUBLIC VIEW – SYNTHESIS TEAMS

Dataset Doc Lib - PaperWritingTeamsInfo - Windows Internet Explorer

http://www.fluxdata.org/DataInfo/Dataset%20Doc%20Lib/PaperWritingTeamsInfo.aspx

File Edit View Favorites Tools Help

Dataset Doc Lib - PaperWritingTeamsInfo

Fluxnet-LaThuile Sign In

Dataset Information

Home Dataset Information Blog User Support

This Site: Dataset Information

Fluxnet-LaThuile > Dataset Information > Dataset Doc Lib > PaperWritingTeamsInfo

FLUXNET Paper-Writing Teams Information

Search for proposals that use a particular site

Search for all proposals that include this person

Proposals (click on a column title to sort alphabetically by that column)

Coordinator	Title	Paper Status	Collaborators	Topic	Details (incl. Towers)
Jean-Francois Soussana	Disturbance synthesis	Unknown	Grace; Soussana; Klumpp	Disturbance	View
Markus Reichstein	Inter-annual variation (IAV) in global terrestrial carbon-water balance derived from network of eddy covariance flux sites magnitude, controlling processes and climate factors	Started with 1st overview and site selection	Reichstein; Papale; Baldocchi; Barr; Ciais; Heimann; Luyssaert; Richardson; Rodenbeck	IAV, global	View
Alessandro Cescatti	Validation of MODIS albedo product at the FLUXNET sites	Started with 1st overview and site selection	Cescatti; Schaaf; Cook; Marcolla; Richardson; Law	Biophys., Albedo	View
Youngryel Ryu	Seasonal variation of surface and air temperatures across a range of plant functional types and climatic zones	Unknown	Ryu; Baldocchi; Detto; Stoy		View
Alessandro Cescatti	Effect of land use change and global warming on winter albedo	Started with 1st overview and site selection	Cescatti; Ciais; Marcolla	Biophys., Albedo, Landuse	View
Russell Monson	A Comparative Study of Optimized Process Parameters and their Response to Current and Future Climate in Evergreen Needleleaf Ecosystems	Unknown	Monson; Moore; Schimel	Inverse parameter retrieval	View
Gitta Lasslop	Towards a better understanding of temporal variability of inverse model parameter estimates in process-based models	Unknown	Lasslop; Reichstein; Mahecha; Kattge	Inverse parameter retrieval	View
Andrew Richardson	Effect of spring onset and autumn senescence date on forest-atmosphere CO2 exchange	Started with 1st overview and site selection	Richardson; Piao; Ciais; Breon	Phenology; growing season	View
Junhui Zhang	Sink or Source - Carbon metabolism and regulating factors of old-growth forest ecosystems	Unknown	Zhang	Old-growth;	View
Bin Zhao	Surface water on energy exchanges of wetlands	Unknown	Zhao; Guo		View
Werner L. Kutsch	A quick-test of all sites involved in the Fluxnet study concerning advective losses during night-time	Unknown	Kutsch; Feigenwinter	Quality control	View
Christopher A. Williams	Estimation of the Evaporative Fraction term of PET for Remote Sensing Applications of AET	Unknown	Williams; Marshall; Still; Roberts; Funk; Michaelsen		View
ShiLong Piao	Effect of snow change on the C balance in various northern ecosystems	Started with 1st overview and site selection	Piao; Ciais; Reichstein; Luyssaert	Snow effects; Boreal-Tundra	View
Gitta Lasslop	Extended hyperbolic light response curve including VPD effects to derive GPP estimates mainly based on daytime	Sites selected and PIs contacted with	Lasslop; Reichstein; Papale		View

Internet 100%

FLUXDATA PUBLIC VIEW – PAPER DETAIL

Dataset Doc Lib - PaperWritingTeamsInfo - Windows Internet Explorer

http://www.fluxdata.org/DataInfo/Dataset%20Doc%20Lib/PaperWritingTeamsInfo.aspx

File Edit View Favorites Tools Help

Dataset Doc Lib - PaperWritingTeamsInfo

Fluxnet-LaThuile Sign In

Dataset Information

Home Dataset Information Blog User Support

This Site: Dataset Information

Fluxnet-LaThuile > Dataset Information > Dataset Doc Lib > PaperWritingTeamsInfo

FLUXNET Paper-Writing Teams Information

[Back](#)

Current Information

Coordinator:

Title:

Abstract URL:

Collaborators:

Topic:

Paper Status:

Towers

La Thuile ID	Tower Name	Country	State	Network	Latitude	Longitude	Vegetation Type	Climate
AU-Tum	Tumbarumba	Australia		OzFlux	-35.6557	148.152	EBF	Cfb
BE-Bra	Brasschaat (De Inslag Forest)	Belgium		CarboEurope IP	51.3092	4.52056	MF	Cfb
DE-Tha	Tharandt- Anchor Station	Germany		CarboEurope IP	50.9636	13.5669	ENF	Cfb
DE-Wet	Wetzstein	Germany		CarboEurope IP	50.4535	11.4575	ENF	Cfb
FR-Fon	Fontainebleau	France		CarboEurope IP	48.4763	2.78015	DBF	Cfb
PL-wet	Polwet	Poland		CarboEurope IP	52.7622	16.3094	WET	Cfb
PT-Esp	Espirra	Portugal		CarboEurope IP	38.6394	-8.6018	EBF	Csa
US-Blo	Blodgett Forest	USA	CA	AmeriFlux	38.8952	-120.633	ENF	Csa
US-WCr	Willow Creek	USA	WI	AmeriFlux	45.8059	-90.0799	DBF	Dfb
VU-Coc	CocoFlux	Vanuatu		Unaffiliated	-15.4427	167.192	EBF	Af
FI-Sii	Siikaneva fen	Finland		Unaffiliated	61.833	24.193	GRA	Dfc
JP-Tak	Takayama	Japan		AsiaFlux	36.1462	137.423	DBF	Dfb
US-Syv	Sylvania Wilderness Area	USA	MI	AmeriFlux	46.242	-89.3477	MF	Dfb
US-UMB	Univ. of Mich. Biological Station	USA	MI	AmeriFlux	45.5598	-84.7138	DBF	Dfb
AT-Neu	Neustift/Stubai Valley	Austria		Unaffiliated	47.11667	11.3175	GRA	Cfb
CA-Mer	Eastern Peatland- Mer Bleue	Canada		Fluxnet-Canada	45.4094	-75.5186	WET	Dfb
DE-Bay	Bayreuth-Waldstein/WeidenBrunnen	Germany		CarboEurope IP	50.1419	11.8669	ENF	Cfb
DE-Hai	Hainich	Germany		CarboEurope IP	51.0793	10.452	DBF	Cfb
FI-Hyy	Hyytiälä	Finland		CarboEurope IP	61.8474	24.2948	ENF	Dfc
FR-Hes	Hesse Forest- Sarrebourg	France		CarboEurope IP	48.6742	7.06462	DBF	Cfb
FR-LBr	Le Bray (after 6/28/1998)	France		CarboEurope IP	44.7171	-0.7693	ENF	Cfb

Internet 100%

FLUXDATA SYNTHESIS VIEW - DOWNLOAD

Home - Data Download - Windows Internet Explorer

http://www.fluxdata.org/DataDownload/default.aspx

File Edit View Favorites Tools Help

Home - Data Download Facebook | Home Indiana University Wireless A... Indiana University Wireless A...

Fluxnet-LaThuile

Data Download

Home Dataset Information Blog User Support **Data Download** Data Browsing Send Email Info about My Site(s) Ancillary Data Update Approve Ancillary Data Update Tower Info Update Request A...

View All Site Content

Documents

Lists

Discussions

Sites

People and Groups

Recycle Bin

Fluxnet-LaThuile > Data Download

Flux Data Request Web Part

Select desired sites:

- AT-Neu Austria - Neustift/Stubai
- AU-Fog Australia - Fogg Dam
- AU-How Australia - Howard Sprin
- AU-Tum Australia - Tumberumba
- AU-Wac Australia - Wallaby Cree
- BE-Bra Belgium - Brasschaat (De
- BE-Jal Belgium - Jalhay
- BE-Lon Belgium - Lonze
- BE-Vie Belgium - Vielsalm

☐ Select all sites

Select file type:

☐ Binary ☒ Core Vars ☐ Core w/Qual ☐ All Vars ☐ Matlab Scripts

☒ Daily ☐ Hourly

Select desired years:

☐ 1991 ☐ 1992 ☐ 1993 ☐ 1994 ☐ 1995

☐ 1996 ☐ 1997 ☐ 1998 ☐ 1999 ☐ 2000

☐ 2001 ☐ 2002 ☐ 2003 ☐ 2004 ☐ 2005

☐ 2006 ☐ 2007

☐ Select all years

Additional files: ☐ Site ancillary data for all sites (Matlab)

Submit

WARNI

This dataset figures to be requested d

If you downl

All Daily Files

- Binary
- Core V
- Core v
- All Var

All Hourly Fil

- Binary
- Core V
- Core v
- All Var

A single site

Daily File

- Binary
- Core V
- Core v
- All Var

Hourly File

- Binary
- Core V

FLUXDATA SYNTHESIS VIEW - BROWSING

Home - Data Browsing - Windows Internet Explorer

http://www.fluxdata.org/Data%20Browsing/default.aspx

File Edit View Favorites Tools Help

Home - Data Browsing Facebook | Home Indiana University Wireless A... Indiana University Wireless A...

Fluxnet-LaThuile

Data Browsing

Home Dataset Information Blog User Support Data Download **Data Browsing** Send Email Info about My Site(s) Ancillary Data Update Approve Ancillary Data Update Tower Info Update Request A

View All Site Content

Documents

Lists

Discussions

Sites

People and Groups

Recycle Bin

Fluxnet-LaThuile > Data Browsing

Data Browsing

This page provides access to all available ancillary data for the sites as well as to the core daily data variables (including quality) via pivot tables served up through sharepoint. It also provides a link to the preliminary list of paper teams. Documentation describing the variables can be found under the 'Dataset Information' tab.

Site Ancillary Data including BADM data

- Chart of Ancillary Data Availability
- All Ancillary Data Available
 - By Site (ftp)
 - By Type (ftp)
- Core Ancillary Data (ftp)
- Ustar threshold used for processing and related plots (ftp)
- Chemistry of Forest Floor and Live Foliage (non-soil) (ftp)
- Chemistry of Soil (ftp)
- Disturbance Data
 - By Site (ftp)
 - By Type (ftp)
- Phenology (ftp)
- Plot Condition (ftp)
- Productivity (ftp)
- Soil Respiration (ftp)
- Vegetation Condition (ftp)

Dataset Curation Information

- Pending and rejected ancillary data web submissions (report is updated weekly)

Data Summaries

- Flux/Met Aggregations by Site
- Flux/Met Aggregations by Site Year (color coded by quality and availability)
- Flux/Met Aggregations by Site Year with qcOK and amount of data listed
- Flux/Met Minimums and Maximums by Site
- Datumtype/Offset/Exdatumtype Explanation

Done

Internet 100%

FLUXDATA SYNTHESIS VIEW – ANC UPDATE

Home - Ancillary Data Update - Windows Internet Explorer

http://www.fluxdata.org/AncDataUpdate/default.aspx

File Edit View Favorites Tools Help

Home - Ancillary Data... X Facebook | Home Indiana University Wirel... Indiana University Wirel...

Fluxnet-LaThuile Welcome Deb Agarw

Ancillary Data Update

This Site: Ancillary Data Updat

Home Dataset Information Blog User Support Data Download Data Browsing Send Email Info about My Site(s) **Ancillary Data Update** Approve Ancillary Data Update Tower Info L

View All Site Content

Documents

- Shared Documents

Lists

- Calendar
- Tasks

Discussions

- Team Discussion

Sites

People and Groups

Fluxnet-LaThuile > Ancillary Data Update

Data Correction Web Part

Current values will be retrieved automatically when a new site or variable is selected.

Site US-Var USA - CA - Vaira Ranch- Ione

Variable Type General

Variable LAT (dec deg)

Site Curator Tom Boden

Status	Value	Reference	Submit date (UTC)	Submit group
Edit	Add New Value			
Edit	ACCEPTED 38.4133	Dennis Baldocchi	11/1/2007 12:00:00 AM	Fluxnet_ancillary-data_29_10_2007_forCatherine.xls

Done

Internet 100%

FLUXDATA SITE SCIENTIST VIEW - HOME

Home - Info about My Site(s) - Windows Internet Explorer

http://www.fluxdata.org/TowerSiteInfo/default.aspx

File Edit View Favorites Tools Help

Home - Info about My Site(s)

Fluxnet-LaThuile

Info about My Site(s)

Home Dataset Information Blog User Support Data Download Send Email **Info about My Site(s)** Ancillary Data Update Tower Info Update Ancillary Data Requests

View All Site Content

Documents

- Shared Documents

Lists

- Calendar
- Tasks

Discussions

- Team Discussion

Sites

People and Groups

Fluxnet-LaThuile > Info about My Site(s)

Tower PI Data viewing Web Part

Click Here to see ancillary data variable descriptions

Click here to see the proposals using your data (use the "search" capability on the top of the page)

Site:

Short Name	Param Type	Debris	Value	Param1 Type	Param1	Param2 Type	Param2	Param3 Type	Param3	Con
HEIGHTC	(none)	(none)	5.4-14.8							
PRECIP	(none)	_locclim	581.45							
TA	(none)	_max_locclim	23.1							
TA	(none)	_avg_locclim	15.72							
TA	(none)	_min_locclim	8.53							
LAT	(none)	(none)	38.4316							
LONG	(none)	(none)	-120.966							
CLIMATE	(none)	_group	SubTropical-Mediterranean							
IGBP	(none)	(none)	WSA							Hibt 70
LAI	_LAI	(none)	0.6	LAI Clump		LAI Technique				Hibt 70
ELEV	(none)	(none)	177							Hibt 70
SOIL_THICKNESS	_Depth	(none)	0.3			Depth		Horizon	A-Horizon	Hibt 70
REFERENCE	(none)	(none)	Hibbard, et al. 2005. Biogeochemistry, 73, 29-70							

Done

Internet 100%

FLUXDATA DESIGN

- Minimize the barrier to entry
 - Put as much as possible in the public domain
- Focus on functionality targeted at improving the **science** experience
 - Aggregate and data quality reports
 - Data browsing
 - Easy communication with measurement site scientists
 - Easy ability to generate typical analysis graphs
- Include critical content needed by a majority of collaborators
 - Data download
 - Access to ancillary data about sites
- Avoid adding extraneous functionality
- Listen to the target users
 - Understand what is important to them
 - Read their papers and identify typical analyses and techniques
 - How they work with the data (units/time periods/etc)
- Develop a relationship of mutual trust

Desperate users are the best kind!

ACKNOWLEDGEMENTS

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Monte Good (LBL)
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Matt Rodriguez (SDSC Student)
Carolyn Remick (UCB)
Susan Hubbard (LBL)

University of Virginia

Marty Humphrey
Norm Beekwilder

Microsoft

Catharine van Ingen
Bora Beran
Jayant Gupchup (student)
Nolan Li (student)
Stuart Ozer
Tony Hey
Dan Fay
Savas Parastidis
Andy Sterland
Jing De Jong-Chen
SQL product team
Jim Gray

Ameriflux Collaboration

Beverly Law (UOregon)
Youngryel Ryu (UCB postdoc)
Tara Stiefl (UO student)
Chris Williamson (UO student)
Gretchen Miller (UCB student)
Tom Boden (ORNL)

North American Carbon Program

Peter Thornton (ORNL)
Kevin Schaefer (NSIDC)
Daniel Ricciuto (ORNL)

FLUXNET Collaboration

Dennis Baldocchi (UCB)
Rodrigo Vargas (UCB postdoc)
Dario Papale (UTuscia)
Markus Reichstein (Max Plank)
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